

CLAIMS:

1. A method suitable for placing at least one component in a desired position on at least one substrate by means of a device, which device is provided with a displaceable arm on which at least one placement device and at least one image recording device are present, such that the image recording device records an image of a reference element located on a substrate, whereupon the location of the desired position relative to the reference element is determined by means of a processor on the basis of said image, and subsequently the component is placed in the desired position on the substrate by the placement device, characterized in that the arm is provided with at least two image recording devices situated at a certain pitch distance from each other and with at least two placement devices situated at the same pitch distance from one another, said image recording devices and placement devices being distant from one another by once said pitch distance or a multiple thereof, such that at least one image recording device records an image of at least one reference element located on a substrate while at the same time at least one placement device places a component on a substrate.
- 15 2. A method as claimed in claim 1, characterized in that the image recording devices take images simultaneously, while at the same time the placement devices place components simultaneously.
- 20 3. A method as claimed in claim 2, characterized in that four substrates are situated at one and the same pitch distance from one another, with the image recording devices taking images of two substrates simultaneously, while at the same time the placement devices place components simultaneously on the other two substrates.
- 25 4. A method as claimed in claim 1, characterized in that each image recording device co-operates with a placement device, such that first a first image recording device takes an image while at the same time the associated placement device places a component, whereupon the second image recording device takes an image while at the same time the associated second placement device places a component.

5. A method as claimed in any one of the claims 1 to 4, characterized in that the placement devices pick up two components simultaneously from a component feeder device.

5 6. A method as claimed in any one of the preceding claims, characterized in that the substrate is located on a positioning table, which positioning table is controlled by the processor in the plane of the substrate, whereupon the component is placed in the desired position on the substrate by the placement device.

10 7. A method as claimed in any one of the preceding claims, characterized in that the placement devices are displaceable in the plane of the substrate independently of one another.

8. A device comprising at least an image recording device and at least one placement device for placing a component on a substrate, said image recording device and said placement device being located on an arm, characterized in that the arm is provided with at least two image recording devices situated at a certain pitch distance from each other and with at least two placement devices situated at the same pitch distance from one another, said image recording devices and placement devices being distant from one another by once said pitch distance or a multiple thereof.

9. A device as claimed in claim 8, characterized in that the device is further provided with at least two fluxing devices which have the same pitch distance as the placement devices.

25 10. A device as claimed in claim 8 or 9, characterized in that the device is provided with at least two further image recording devices which have the same pitch distance to one another as the placement devices.

30 11. A device as claimed in any one of the preceding claims 8 to 10, characterized in that the image recording devices and the placement devices are situated in one line, with the two image recording devices situated next to one another and the two placement devices situated at one side of the image recording devices.

12. A device as claimed in any one of the preceding claims 8 to 10, characterized in that one of the placement devices is located on the arm between two image recording devices.